

## General

### Title

Pain management: median time from ED arrival to time of initial oral, intranasal or parenteral pain medication administration for ED patients with a principal diagnosis of long bone fracture.

### Source(s)

Centers for Medicare and Medicaid Services (CMS). Hospital outpatient quality reporting specifications manual, version 11.0. Baltimore (MD): Centers for Medicare and Medicaid Services (CMS); Effective 2018 Jan. various p.

## Measure Domain

### Primary Measure Domain

Clinical Quality Measures: Process

### Secondary Measure Domain

Does not apply to this measure

## Brief Abstract

### Description

This measure is used to assess the time (in minutes) from emergency department (ED) arrival to time of initial oral, intranasal or parenteral pain medication administration for ED patients with a principal diagnosis of long bone fracture.

### Rationale

Pain management in patients with long bone fractures is undertreated in emergency departments (Ritsema et al., 2007). Emergency department pain management has room for improvement (Ritsema et al., 2007). Patients with bone fractures continue to lack administration of pain medication as part of treatment regimens (Brown et al., 2003). When performance measures are implemented for pain management of these patients administration and treatment rates for pain improve (Herr & Titler, 2009). Disparities continue to exist in the administration of pain medication for minorities (Epps, Ware, & Packard, 2008; Todd, Samaroo, & Hoffman, 1993) and children as well (Brown et al., 2003; Friedland &

Kulick, 1994).

## Evidence for Rationale

Brown JC, Klein EJ, Lewis CW, Johnston BD, Cummings P. Emergency department analgesia for fracture pain. *Ann Emerg Med*. 2003 Aug;42(2):197-205. [PubMed](#)

Centers for Medicare and Medicaid Services (CMS). Hospital outpatient quality reporting specifications manual, version 11.0. Baltimore (MD): Centers for Medicare and Medicaid Services (CMS); Effective 2018 Jan. various p.

Epps CD, Ware LJ, Packard A. Ethnic wait time differences in analgesic administration in the emergency department. *Pain Manag Nurs*. 2008 Mar;9(1):26-32. [PubMed](#)

Friedland LR, Kulick RM. Emergency department analgesic use in pediatric trauma victims with fractures. *Ann Emerg Med*. 1994 Feb;23(2):203-7. [PubMed](#)

Herr K, Titler M. Acute pain assessment and pharmacological management practices for the older adult with a hip fracture: review of ED trends. *J Emerg Nurs*. 2009 Jul;35(4):312-20. [PubMed](#)

Ritsema TS, Kelen GD, Pronovost PJ, Pham JC. The national trend in quality of emergency department pain management for long bone fractures. *Acad Emerg Med*. 2007 Feb;14(2):163-9.

Todd KH, Samaroo N, Hoffman JR. Ethnicity as a risk factor for inadequate emergency department analgesia. *JAMA*. 1993 Mar 24-31;269(12):1537-9. [PubMed](#)

## Primary Health Components

Long bone fracture; pain management; oral, intranasal, or parenteral pain medication

## Denominator Description

Included populations:

Patients with a patient age on *Outpatient Encounter Date* (*Outpatient Encounter Date*  $\hat{=}$  *Birthdate*) greater than or equal to 2 years, and  
An *International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)* *Principal Diagnosis Code* for a (long bone) fracture (as defined in Appendix A, OP Table 9.0 of the original measure documentation), and  
Patients with *Pain Medication* (as defined in the Data Dictionary), and  
An *Evaluation and Management (E/M) Code* for emergency department (ED) encounter (as defined in Appendix A, OP Table 1.0 of the original measure documentation)

See the related "Denominator Inclusions/Exclusions" field.

## Numerator Description

*Continuous variable statement:* Time (in minutes) from emergency department (ED) arrival to time of initial oral, intranasal or parenteral pain medication administration for ED patients with a diagnosis of a (long bone) fracture

# Evidence Supporting the Measure

## Type of Evidence Supporting the Criterion of Quality for the Measure

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

## Additional Information Supporting Need for the Measure

Unspecified

## Extent of Measure Testing

This measure is being collected by hospitals paid under the Outpatient Prospective Payment System; about 4,000 hospitals across the nation. The measure has been collected since January 1, 2012. In 2014, validity testing of critical data elements was performed on this measure for the measure period January 1, 2012 to December 31, 2012.

## Evidence for Extent of Measure Testing

Larbi F. Personal communication: CMS hospital outpatient department quality measures. 2014 Jul 24.

# State of Use of the Measure

## State of Use

Current routine use

## Current Use

not defined yet

# Application of the Measure in its Current Use

## Measurement Setting

Emergency Department

Hospital Outpatient

## Professionals Involved in Delivery of Health Services

not defined yet

## Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

## Statement of Acceptable Minimum Sample Size

Specified

## Target Population Age

Age greater than or equal to 2 years

## Target Population Gender

Either male or female

# National Strategy for Quality Improvement in Health Care

## National Quality Strategy Aim

Better Care

## National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

# Institute of Medicine (IOM) National Health Care Quality Report Categories

## IOM Care Need

Getting Better

## IOM Domain

Effectiveness

Timeliness

# Data Collection for the Measure

## Case Finding Period

Encounter dates: January 1 through December 31

## Denominator Sampling Frame

Patients associated with provider

## Denominator (Index) Event or Characteristic

Clinical Condition

Encounter

Patient/Individual (Consumer) Characteristic

Therapeutic Intervention

## Denominator Time Window

not defined yet

## Denominator Inclusions/Exclusions

### Inclusions

Patients with a patient age on *Outpatient Encounter Date* (*Outpatient Encounter Date*  $\hat{=}$  *Birthdate*) greater than or equal to 2 years, and  
An *International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)* *Principal Diagnosis Code* for a (long bone) fracture (as defined in Appendix A, OP Table 9.0 of the original measure documentation), and  
Patients with *Pain Medication* (as defined in the Data Dictionary), and  
An *Evaluation and Management (E/M) Code* for emergency department (ED) encounter (as defined in Appendix A, OP Table 1.0 of the original measure documentation)

### Exclusions

Patients less than 2 years of age  
Patients who expired  
Patients who left the ED against medical advice or discontinued care

## Exclusions/Exceptions

not defined yet

## Numerator Inclusions/Exclusions

### Inclusions

*Continuous variable statement:* Time (in minutes) from emergency department (ED) arrival to time of initial oral, intranasal or parenteral pain medication administration for ED patients with a diagnosis of a (long bone) fracture

### Exclusions

None

## Numerator Search Strategy

Encounter

## Data Source

Administrative clinical data

Paper medical record

## Type of Health State

Does not apply to this measure

## Instruments Used and/or Associated with the Measure

- An electronic data collection tool is made available from vendors or facilities can download the free CART tool. Paper tools for manual abstraction are also available for the CART tool. These tools are posted on the [QualityNet Web site](#) .
- Pain Management Hospital Outpatient Population Algorithm: OP-21
- Algorithm Narrative for OP-21: Pain Management Hospital Outpatient Population
- OP-21: Median Time to Pain Management for Long Bone Fracture Algorithm
- Algorithm Narrative for OP-21: Median Time to Pain Management for Long Bone Fracture

## Computation of the Measure

### Measure Specifies Disaggregation

Does not apply to this measure

### Scoring

Mean/Median

### Interpretation of Score

Desired value is a lower score

### Allowance for Patient or Population Factors

not defined yet

### Standard of Comparison

not defined yet

## Identifying Information

### Original Title

OP-21: hospital outpatient pain management: median time to pain management for long bone fracture.

## Measure Collection Name

Hospital Outpatient Quality Measures

## Measure Set Name

Pain Management

## Submitter

Centers for Medicare & Medicaid Services - Federal Government Agency [U.S.]

## Developer

Centers for Medicare & Medicaid Services - Federal Government Agency [U.S.]

## Funding Source(s)

United States Department of Health and Human Services

## Composition of the Group that Developed the Measure

The measure was developed by the Centers for Medicare & Medicaid Services (CMS) Contractor at the time, the Oklahoma Foundation for Medical Quality Contractor. The measure continues to be maintained by CMS and its current measure maintenance contractor, Mathematica Policy Research, in conjunction with a multi-disciplinary Technical Expert Panel.

## Financial Disclosures/Other Potential Conflicts of Interest

None

## Measure Initiative(s)

Hospital Compare

Hospital Outpatient Quality Reporting Program

## Adaptation

This measure was not adapted from another source.

## Date of Most Current Version in NQMC

2018 Jan

## Measure Maintenance

Twice yearly

## Date of Next Anticipated Revision

None

## Measure Status

This is the current release of the measure.

This measure updates a previous version: Centers for Medicare and Medicaid Services (CMS). Hospital outpatient quality reporting specifications manual, version 9.0a. Baltimore (MD): Centers for Medicare and Medicaid Services (CMS); Effective 2016 Jan 1. various p.

## Measure Availability

Source available from the [QualityNet Web site](#) .

Check the QualityNet Web site regularly for the most recent version of the specifications manual and for the applicable dates of discharge.

## NQMC Status

This NQMC summary was completed by ECRI Institute on May 7, 2014. The information was verified by the measure developer on July 3, 2014.

This NQMC summary was updated by ECRI Institute on December 22, 2015. The information was verified by the measure developer on January 28, 2016.

This NQMC summary was updated again by ECRI Institute on January 16, 2018. The information was verified by the measure developer on February 7, 2018.

## Copyright Statement

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The Hospital Outpatient Quality Reporting Specifications Manual is periodically updated by the Centers for Medicare & Medicaid Services. Users of the Hospital OQR Specifications Manual must update their software and associated documentation based on the published manual production timelines.

## Production

### Source(s)

Centers for Medicare and Medicaid Services (CMS). Hospital outpatient quality reporting specifications manual, version 11.0. Baltimore (MD): Centers for Medicare and Medicaid Services (CMS); Effective 2018 Jan. various p.



# Disclaimer

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